PCT OPERATIONS
UNITED STATES PATENT AND TRADEMARK OFFICE

PCT OPERATIONS

FACSIMILE TRANSMISSION COVER SHEET

DATE: 23 MAY 2005

TO: Lisa

TELEPHONE: (202) 628-5197
FAX NO.: (202) 737, 3528

FROM: Shakeel Ahmed.

TELEPHONE: 703-308-9140 #208
FAX NO.: 703-305-3230 OR 703-308-4785

MESSAGE:

As per your request to our telephone conversation this morning.

NUMBER OF PAGES 9 **(INCLUDING THIS PAGE)**

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information
Center (STIC) detected errors when processing the following computer readable
form:

Application Serial Number: _10/502,085_

Source: _PCT/10_

Date Processed by STIC: _4/21/05_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE
   APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A
   NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT
MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO **REDUCE** ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER
VERSION 4.2.2 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
> http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is
a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the
United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm> , EFS Submission
   User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
   U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street,
   Alexandria, VA 22314

Revised 01/24/05

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: _10/502,085_

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO S

1 ____ Wrapped Nucleics
Wrapped Aminos
The number/text at the end of each line "wrapped" down to the next line. This may occur if yo was retrieved in a word processor after creating it. Please adjust your right margin to .3; this w prevent "wrapping."

·2 ____ Invalid Line Length
The rules require that a line not exceed 72 characters in length. This includes white spaces.

3 ____ Misaligned Amino
Numbering
The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbe use space characters, instead.

4 ____ Non-ASCII
The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Pl ensure your subsequent submission is saved in ASCII text.

5 ____ Variable Length
Sequence(s) ____ contain n's or Xaa's representing more than one residue. Per Sequence Rule each n or Xaa can only represent a single residue. Please present the maximum number of residue having variable length and indicate in the <220>-<223> section that some may be miss

6 ____ PatentIn 2.0
"bug"
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amine sequences(s) ____. Normally, PatentIn would automatically generate this section from previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> sect the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections Artificial or Unknown sequences.

7 ____ Skipped Sequences
(OLD RULES)
Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped s (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this hea
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped se

8 ____ Skipped Sequences
(NEW RULES)
Sequence(s) ____ missing. If intentional, please insert the following lines for each skippe
<210> sequence id number
<400> sequence id number
000

9 ____ Use of n's or Xaa's
(NEW RULES)
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are pres
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa r

10 ____ Invalid <213>
Response ·
Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Seque scientific name (Genus/species). <220>-<223> section is required when <213> response is ' is Artificial Sequence

11 ____ Use of <220>
Sequence(s) ____ missing the <220> "Feature" and associated numeric identifiers and r Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequ "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Seque

12 ____ PatentIn 2.0
"bug"
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted f resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequer listing). Instead, please use "File Manager" or any other manual means to copy file to floppy

13 ____ Misuse of n/Xaa
"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid ·

Input Set : A:\sequence listing.txt
Output Set: N:\CRF4\04212005\J502085.raw

OL/6C

```
     3 <110> APPLICANT: BIOMIRA INC. et al.
     5 <120> TITLE OF INVENTION: IMMUNOSTIMULATORY, COVALENTLY LIPIDATED (OIGONUCL
     7 <130> FILE REFERENCE: JIANG=4A PCT
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/502,085
C--> 10 <141> CURRENT FILING DATE: 2004-07-22
    12 <150> PRIOR APPLICATION NUMBER: 60/353,195
    13 <151> PRIOR FILING DATE: 2002-02-04
    15 <160> NUMBER OF SEQ ID NOS: 12
    17 <170> SOFTWARE: PatentIn version 3.2
    19 <210> SEQ ID NO: 1
    20 <211> LENGTH: 10
    21 <212> TYPE: DNA
    22 <213> ORGANISM: Artificial
    24 <220> FEATURE:
    25 <223> OTHER INFORMATION: (128H)
    27 <400> SEQUENCE: 1
    28 cacacgtgtg                                                    10
    31 <210> SEQ ID NO: 2
    32 <211> LENGTH: 25
    33 <212> TYPE: PRT
    34 <213> ORGANISM: Artificial
    36 <220> FEATURE:
    37 <223> OTHER INFORMATION: Fig. 17 BP1-148
    39 <400> SEQUENCE: 2
    41 Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr Arg
    42 1               5                   10                  15
    45 Pro Ala Pro Gly Ser Thr Ala Pro Pro
    46              20                  25
    49 <210> SEQ ID NO: 3
    50 <211> LENGTH: 20
    51 <212> TYPE: DNA
    52 <213> ORGANISM: Artificial
    54 <220> FEATURE:
    55 <223> OTHER INFORMATION: activating sequence
    57 <400> SEQUENCE: 3
    58 ggtgcatcga tgcagggggg                                        20
    61 <210> SEQ ID NO: 4
    62 <211> LENGTH: 10
    63 <212> TYPE: PRT
    64 <213> ORGANISM: leishmani major
    66 <400> SEQUENCE: 4
    68 Glu Ala Glu Glu Ala Ala Arg Leu Gln Ala
    69 1               5                   10
```

[Handwritten annotations: "pp. 1,3", "Does Not Comply Corrected Diskette Need", "insufficient response", "give source of genetic material (see item 11 on 2", "same error", "give source, too"]

72 <210> SEQ ID NO: 5
73 <211> LENGTH: 25
74 <212> TYPE: PRT
75 <213> ORGANISM: Artificial
77 <220> FEATURE:
78 <223> OTHER INFORMATION: MUC1 repeat consensus sequence
80 <400> SEQUENCE: 5
82 Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala Gln Thr Ala His Gly Val
83 1   5   10   15
86 Thr Ser Ala Pro Asp Glu Thr Ser Arg
87   20   25
90 <210> SEQ ID NO: 6
91 <211> LENGTH: 12
92 <212> TYPE: PRT
93 <213> ORGANISM: Artificial
95 <220> FEATURE:
96 <223> OTHER INFORMATION: MUC1 fragment
98 <400> SEQUENCE: 6
100 Pro Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr
101 1   5   10
104 <210> SEQ ID NO: 7
105 <211> LENGTH: 9
106 <212> TYPE: PRT
107 <213> ORGANISM: Artificial
109 <220> FEATURE:
110 <223> OTHER INFORMATION: MUC1 fragment
112 <400> SEQUENCE: 7
114 Thr Leu Ala Pro Ala Thr Glu Pro Ala
115 1   5
118 <210> SEQ ID NO: 8
119 <211> LENGTH: 9
120 <212> TYPE: PRT
121 <213> ORGANISM: Artificial
123 <220> FEATURE:
124 <223> OTHER INFORMATION: MUC1 fragment
126 <400> SEQUENCE: 8
128 Ala Leu Gly Ser Thr Ala Pro Pro Val
129 1   5
132 <210> SEQ ID NO: 9
133 <211> LENGTH: 9
134 <212> TYPE: PRT
135 <213> ORGANISM: Artificial
137 <220> FEATURE:
138 <223> OTHER INFORMATION: MUC1 fragment
140 <400> SEQUENCE: 9
142 Phe Leu Ser Phe His Ile Ser Asn Leu
143 1   5
146 <210> SEQ ID NO: 10
147 <211> LENGTH: 20

```
148 <212> TYPE: PRT
149 <213> ORGANISM: Artificial
151 <220> FEATURE:
152 <223> OTHER INFORMATION: MUC1 repeat
154 <400> SEQUENCE: 10
156 Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala
157 1               5                   10                  15
160 Pro Pro Ala His
161             20
164 <210> SEQ ID NO: 11
165 <211> LENGTH: 28
166 <212> TYPE: PRT
167 <213> ORGANISM: Artificial
169 <220> FEATURE:
170 <223> OTHER INFORMATION: Fig. 17, intermediate
173 <220> FEATURE:
174 <221> NAME/KEY: misc_feature
175 <222> LOCATION: (27)..(27)
176 <223> OTHER INFORMATION: Lys is modified by a palmitoyl group
178 <400> SEQUENCE: 11
180 Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser Ala Pro Pro Asp Thr
181 1               5                   10                  15
184 Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Lys Gly
185             20                      25
188 <210> SEQ ID NO: 12
189 <211> LENGTH: 12
190 <212> TYPE: PRT
191 <213> ORGANISM: Plasmodium galciparum
193 <400> SEQUENCE: 12
195 Asn Ala Asn Pro Asn Ala Asn Pro Asn Ala Asn Pro
196 1               5                   10
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 04/21/2005
PATENT APPLICATION: US/10/502,085   TIME: 10:00:42

Input Set : A:\sequence listing.txt
Output Set: N:\CRF4\04212005\J502085.raw

Invalid <213> Response:
Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,5,6,7,8,9,10,11

VERIFICATION SUMMARY
PATENT APPLICATION: **US/10/502,085**

DATE: 04/21/2005
TIME: 10:00:42

Input Set : **A:\sequence listing.txt**
Output Set: **N:\CRF4\04212005\J502085.raw**

L:9 M:270 C: Current Application Number differs, Replaced Current Application Numbe
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

STATISTICS SUMMARY   DATE: 04/21/2005
PATENT APPLICATION: **US/10/502,085**   TIME: 10:00:42

Input Set : **A:\sequence listing.txt**
Output Set: **N:\CRF4\04212005\J502085.raw**

Application Serial Number: US/10/502,085
Alpha or Numeric or Xml: Numeric
Application Class:
Application File Date: 07-22-2004
Art Unit: PCT
Software Application: PatentIN3.2
Total Number of Sequences: 12
Total Nucleotides: 30
Total Amino Acids: 159
Number of Errors: 0
Number of Warnings: 0
Number of Corrections: 2

MESSAGE SUMMARY

270 C: 1 (Current Application Number differs)
271 C: 1 (Current Filing Date differs)